

Polyclonal Antibody to Aggrecan Neo

Catalog No.:	SP5418P
Quantity:	0.1 mg
Concentration:	0.83 mg/ml
Background:	<p>Aggrecan is a member of large, aggregating proteoglycans (also including, versican, brevican and neurocan) found in articular cartilage. Aggrecan is composed of three major domains: G1, G2, and G3. Between the G1 and G2 domains there is an interglobulin region (IGD). The IGD region is the major site of cleavage by specific proteases like metalloproteinases (MMP's) and aggrecanase (ADAMTS). Aggrecan cleavage has been associated with a number of degenerative diseases including rheumatoid arthritis and osteoarthritis.</p> <p>The C-terminal NITEGE fragment is one of the G1 fragments produced when aggrecan is cleaved with aggrecanase. It is the most abundant fragment found in normal human synovial fluid and articular cartilage, and is the major product produced by aggrecanase cleavage. The NITEGE fragment has also been shown to accumulate rapidly after an acute cartilage injury.</p>
Host:	Rabbit
Immunogen:	Synthetic Peptide: C G G N I T E G E corresponding to amino acid residues from human aggrecan protein.
Format:	<p>State: Liquid purified Ig fraction.</p> <p>Purification: Affinity chromatography.</p> <p>Buffer System: PBS containing 1 mg/ml BSA and 0.05% sodium azide as preservative.</p>
Applications:	<p>Western Blot: 1 µg/ml, detects an ~64 kDa protein representing the neoepitope sequence NITEGE generated by aggrecanase-mediated cleavage at Glu373-Ala374 of aggrecan core proteins).</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	SP5418P detects human, rat, mouse, bovine, canine, and porcine aggrecan neo G1.
Storage:	<p>Store the antibody at -20°C.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>